

Adaptación de un laboratorio remoto de SDR para analizar desigualdades digitales en educación de comunicaciones inalámbricas en Latinoamérica [

2023

Analítica

text (article)

The introduction of technological tools in education has generated environments that simplify the transmission of knowledge to students. However, not everyone has equal access to these tools and several studies have investigated the factors of this digital divide. Specifically, in engineering education, remote laboratories are gaining ground by offering the opportunity to experiment with specialized equipment remotely from anywhere via the Internet. As these labs become increasingly integrated into university curricula, they can also generate digital inequalities among the student body, due to their advanced hardware and software knowledge requirements. The main purpose of this paper is to adapt the Remote Engineering Laboratory for Inclusive Access (RELIA), which operates Software Defined Radio (SDR) technology devices, to the Latin American context, to address and study in the future the digital inequalities that remote laboratories generate in radio frequency education in Latin America. To achieve this, a methodology has been employed that identifies the needs of the Latin American audience through a literature review that explores the existing literature on digital inequalities in the United States and Latin America. In addition, as a future objective, it is planned to compare these findings with similar research and surveys conducted in the United States

The introduction of technological tools in education has generated environments that simplify the transmission of knowledge to students. However, not everyone has equal access to these tools and several studies have investigated the factors of this digital divide. Specifically, in engineering education, remote laboratories are gaining ground by offering the opportunity to experiment with specialized equipment remotely from anywhere via the Internet. As these labs become increasingly integrated into university curricula, they can also generate digital inequalities among the student body, due to their advanced hardware and software knowledge requirements. The main purpose of this paper is to adapt the Remote Engineering Laboratory for Inclusive Access (RELIA), which operates Software Defined Radio (SDR) technology devices, to the Latin American context, to address and study in the future the digital inequalities that remote laboratories generate in radio frequency education in Latin America. To achieve this, a methodology has been employed that identifies the needs of the Latin American audience through a literature review that explores the existing literature on digital inequalities in the United States and Latin America. In addition, as a future objective, it is planned to compare these findings with similar research and surveys conducted in the United States

The introduction of technological tools in education has generated environments that simplify the transmission of knowledge to students. However, not everyone has equal access to these tools and several studies have investigated the factors of this digital divide. Specifically, in engineering education, remote laboratories are gaining ground by offering the opportunity to experiment with specialized equipment remotely from anywhere via the Internet. As these labs become increasingly integrated into university curricula, they can also generate digital inequalities among the student body, due to their advanced hardware and software knowledge requirements. The main purpose of this paper is to adapt the Remote Engineering Laboratory for Inclusive Access (RELIA), which operates Software Defined Radio (SDR) technology devices, to the Latin American context, to address and study in the future the digital inequalities that remote laboratories generate in radio frequency education in Latin America. To achieve this, a methodology has been employed that identifies the needs of the Latin American audience through a literature review that explores the existing literature on digital inequalities in the United States and Latin America. In addition, as a future objective, it is planned to compare these findings with similar research and surveys conducted in the United States

Título: Adaptación de un laboratorio remoto de SDR para analizar desigualdades digitales en educación de comunicaciones inalámbricas en Latinoamérica electronic resource].]

Editorial: 2023

Tipo Audiovisual: Digital inequality equal access remote laboratories Software Defined Radio (SDR) wireless communications RHL-RELIA Desigualdad digital acceso igualitario laboratorio remoto radio definida por software (SDR) comunicaciones inalámbricas RHL-RELIA Desigualdade digital igualdade de acesso laboratórios remotos Rádio Definido por Software (SDR) comunicações sem fio RHL-RELIA

Documento fuente: Innovaciones educativas, ISSN 1022-9825, Vol. 25 (Extra), 2023 (Ejemplar dedicado a: Innovaciones Digitales: Laboratorios Remotos, Inteligencia Artificial y Metaverso), pags. 32-43

Nota general: application/pdf

Restricciones de acceso: Open access content. Open access content star

Condiciones de uso y reproducción: LICENCIA DE USO: Los documentos a texto completo incluidos en Dialnet son de acceso libre y propiedad de sus autores y/o editores. Por tanto, cualquier acto de reproducción, distribución, comunicación pública y/o transformación total o parcial requiere el consentimiento expreso y escrito de aquéllos. Cualquier enlace al texto completo de estos documentos deberá hacerse a través de la URL oficial de éstos en Dialnet. Más información: https://dialnet.unirioja.es/info/derechosOAI | INTELLECTUAL PROPERTY RIGHTS STATEMENT: Full text documents hosted by Dialnet are protected by copyright and/or related rights. This digital object is accessible without charge, but its use is subject to the licensing conditions set by its authors or editors. Unless expressly stated otherwise in the licensing conditions, you are free to linking, browsing, printing and making a copy for your own personal purposes. All other acts of reproduction and communication to the public are subject to the licensing conditions expressed by editors and authors and require consent from them. Any link to this document should be made using its official URL in Dialnet. More info: https://dialnet.unirioja.es/info/derechosOAI

Lengua: Spanish

Enlace a fuente de información: Innovaciones educativas, ISSN 1022-9825, Vol. 25 (Extra), 2023 (Ejemplar dedicado a: Innovaciones Digitales: Laboratorios Remotos, Inteligencia Artificial y Metaverso), pags. 32-43

Baratz Innovación Documental

- Gran Vía, 59 28013 Madrid
- (+34) 91 456 03 60
- informa@baratz.es